: .	Application No.	Applicant(s)
Notice of Allowability	10/808,327	HIGAKI ET AL.
	Examiner	Art Unit
	Tom Y. Lu	2624
	TOTAL T. Ed	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to the application filed on 03/25/2004.		
2. The allowed claim(s) is/are <u>1-12</u> .		
3. ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☐ Some* c) ☐ None of the: 1. ☑ Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) I hereto or 2) I to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal F	, i
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	 Interview Summary Paper No./Mail Da 	(PTO-413), te .
3. Information Disclosure Statements (PTO/SB/08),	7. Examiner's Amend	ment/Comment
Paper No./Mail Date <u>6/24/2004</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Statem	ent of Reasons for Allowance
of Biological Material	9. Other	
	• .	•

Application/Control Number: 10/808,327

Art Unit: 2624

DETAILED ACTION

Information Disclosure Statement

1. The references cited in the Search Report filed 06/24/2004 have been considered.

Allowable Subject Matter

2. Claims 1-12 are allowed.

The following is an examiner's statement of reasons for allowance:

- a. Independent claims 1 and 7 both features of inputting at least the edge image and the defined center line of the profile extraction region and correcting the center line of the profile extraction region based on the inputted edge image; and inputting the profile extraction region whose center line is corrected and extracting a profile of the moving object in the inputted profile extraction region to detect the moving object. These features in combination with other features in claims 1 and 7, which are the broadest allowable claims, are not taught or
- b. Claims 2-6 are dependent upon claim 1.

suggested by the art of record.

- c. Claims 8-12 are dependent upon claim 7.
- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/808,327

Art Unit: 2624

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- a. Sumi et al, ("Sumi") U.S. Patent No. 5,845,006, teaches detecting movement of objects through capturing stereoscopic images, extracting the edges from the stereoscopic images and selecting tracing points for object movement tracking. However, Sumi does not teach the distance image and center-line correction based on profile extraction of the edge image. See whole document.
- b. Hanawa, U.S. Patent No. 6,370,261 B1, teaches using stereoscopic image data to generate distance image through use of histogramming technique. However, Hanawa does not teach center-line correction. See whole document.
- c. Tabata, U.S. Patent No. 6,411,326 B1, teaches detecting object movement in stereo image through steps of edge image generating and pattern extracting. However Tabata does not teach other feature steps recited in the independent claims of this application.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tom Y. Lu whose telephone number is (571) 272-7393. The examiner can normally be reached on 8:30AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella can be reached on (571)-272-7778. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/808,327

Art Unit: 2624

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TYL

MATTHEW C. BELLA SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

Marker C. Bella